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**AMENDMENTS TO THE CLAIMS**

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently amended) A printing system, comprising:  
an inkjet printhead having plural portions each having an ink-ejecting nozzle;  
plural heater elements each associated with one of said plural portions to pre-warm ink dispensed by the nozzle of said associated portion in response to a pre-warming signal; and  
a controller configured to  
analyze an upcoming print swath to determine which of said plural portions are required to eject ink in order to print the swath in accordance with a predefined selection criteria,  
and  
before starting to print the swath, supply the pre-warming signal to one or more heater elements of only the portions required to eject ink to print the swath in accordance with the predefined selection criteria.
2. (Original) The printing system of claim 1, wherein:  
each of said plural portions is configured to dispense a different color of ink; and  
the controller is configured to analyze which of said different colors of ink is required for the upcoming print swath.
3. (Original) The printing system of claim 1, wherein the selection criteria is based upon the type of media to receive ink dispensed from the printhead.
4. (Original) The printing system of claim 3, wherein:  
one of said plural portions is configured to dispense ink of a first color having a first dye

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load;

another of said plural portions is configured to dispense ink of the first color having a second dye load less than said first dye load;

said controller is configured to interpret information to determine the type of media to receive ink dispensed from the printhead; and

when a first type of media is determined, said one of said plural portions is selected for printing and not said another of said plural portions.

5. (Original) The printing system of claim 4, wherein said first type of media comprises one of plain paper and transparency media.

6. (Currently amended) A printing system, comprising:

an inkjet printhead having plural portions each having an ink-ejecting nozzle;

plural heater elements each associated with one of said plural portions to pre-warm ink dispensed by the nozzle of said associated portion in response to a pre-warming signal; and

a controller configured to generate the pre-warming signal for one or more heater elements based on a selection criteria for generating the pre-warming signal only when the nozzle of said associated portion is required to eject ink during an upcoming print swath, wherein the selection criteria is based upon a desired print quality of a resulting image formed by ink ejection of selected nozzles, and wherein the pre-warming signal is generated before starting to print the upcoming print swath.

7. (Original) The printing system of claim 6, wherein:

a first selection provides a first print quality, and a second selection provides a second print quality less than said first print quality;

one of said plural portions is configured to dispense ink of a first color having a first dye load, and another of said plural portions is configured to dispense ink of the first color having a

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second dye load less than said first dye load;

each portion comprises two groups of nozzles which dispense a single color of ink;

when printing under the first selection, ink is dispensed from both of said one and said another of said plural portions and from said two groups of nozzles thereof; and

when printing under the second selection, ink is dispensed from only one of said two groups of nozzles per portion of the printhead.

8-11. (Canceled)

12. (Previously presented) A printing system, comprising:

a printhead having plural portions each having an ink-ejecting nozzle located therein;

plural temperature sensors each associated with one of said plural portions to monitor the temperature thereof;

plural heating elements, each associated with one of said plural portions to apply heat thereto in response to a pre-warming signal; and

a controller configured to generate separate pre-warming signals for each of the plural heating elements in response to the plural temperature sensors to elevate the temperature of at least one of said plural portions to a pre-warming temperature, wherein:

the controller is configured to analyze which plural portions are required to eject ink during an upcoming print swath;

the controller is configured to continue to generate pre-warming signals after printing of said upcoming print swath has begun; and

after ink ejection from one of said plural portions is not required to complete said upcoming print swath, the controller is configured to cease to generate a pre-warming signal therefore.

13. (Canceled)

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14. (Currently amended) A method of pre-warming a multi-color inkjet printhead having plural portions dispensing ink, comprising:

- analyzing an upcoming print swath;
- determining from said analyzing which of said plural portions are a dispensing portion required to dispense ink, and which of said plural portions are a non-dispensing portion not required to dispense ink during printing of said upcoming print swath;
- generating a pre-warming signal for said dispensing portion;
- pre-warming said dispensing portion in response to the pre-warming signal; and
- omitting generation of a pre-warming signal for said non-dispensing portion to produce no pre-warming thereof,

wherein the pre-warming signal to the dispensing portion is generated in accordance with a predefined selection criteria that specifies an event after which the pre-warming signal ceases.

15. (Currently amended) A method of pre-warming a multi-color inkjet printhead having plural portions dispensing ink, comprising:

- determining a type of media upon which an image is to be printed; and
- in response to said determining, selecting which of said plural portions are a dispensing portion required to dispense ink for printing of a print swath, and which of said plural portions are a non-dispensing portion not required to dispense ink during printing of the print swath upon said determined type of media;

- generating a pre-warming signal for said dispensing portion before beginning printing of the print swath;

- pre-warming said dispensing portion in response to the pre-warming signal before beginning printing of the print swath; and

- omitting generation of a pre-warming signal for said non-dispensing portion to produce no pre-warming thereof.

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16. (Previously presented) The method of claim 14, further comprising:  
monitoring the temperature of at least some of said plural portions; and  
wherein said generating of said pre-warming signal and said omitting generation of a  
pre-warming signal are conducted in response to said monitoring.

17. (Currently amended) A method of pre-warming a multi-color inkjet printhead having  
plural portions dispensing ink, comprising:

determining a print quality for printing an upcoming image;  
in response to said determining, selecting which of said plural portions are a dispensing  
portion required to dispense ink for printing of a print swath, and which of said plural portions  
are a non-dispensing portion not required to dispense ink during printing of said upcoming  
image;  
generating a pre-warming signal for said dispensing portion before beginning printing of  
the print swath;  
pre-warming said dispensing portion in response to the pre-warming signal before  
beginning printing of the print swath; and  
omitting generation of a pre-warming signal for said non-dispensing portion to produce  
no pre-warming thereof.

18. (Previously presented) The method of claim 14, further comprising:  
beginning printing of a print swath; and  
ceasing generation of the pre-warming signal upon said beginning.

19. (Previously presented) The method of claim 14, further comprising:  
printing a print swath from a beginning point to an ending point;  
continuing generation of the pre-warming signal after printing from the beginning point;

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monitoring printing temperature of each of said plural portions during said printing; and  
ceasing to generate the pre-warming signal when the printing temperature exceeds a  
threshold temperature before printing to the ending point.

20. (Previously presented) A method of pre-warming a multi-color inkjet printhead  
having plural portions dispensing ink, including first and second portions, comprising:

generating a pre-warming signal for said first portion;

pre-warming said first portion in response to the pre-warming signal;

omitting generation of a pre-warming signal for said second portion to produce no  
pre-warming thereof.

analyzing an upcoming print swath;

determining from said analyzing which of said plural portions are transitional portions  
required to dispense ink over an initial segment of said upcoming print swath, and not required to  
dispense ink over a final segment of said upcoming print swath; and

from said determining, continuing generation of the pre-warming signal for said  
transitional portions during printing of the initial segment and ceasing generation of the  
pre-warming signal during printing of the final segment.

21-23. (Canceled)

24. (Previously presented) A printing system, comprising:

means for ejecting ink from plural portions of an inkjet printhead;

means for heating each of said plural portions in response to a pre-warming signal;

means for determining a type of an upcoming media;

means for sorting which of said plural portions comprise printing portions and which of  
said plural portions comprise non-printing portions when printing upon said upcoming media  
type; and

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means for generating the pre-warming signal for the printing portions; and  
means for omitting generation of the pre-warming signal for the non-printing portions.

25. (Previously presented) A printing system, comprising:  
means for ejecting ink from plural portions of an inkjet printhead;  
means for heating each of said plural portions in response to a pre-warming signal;  
means for determining a print quality of an upcoming image to be printed;  
means for sorting which of said plural portions comprise printing portions and which of  
said plural portions comprise non-printing portions when printing said upcoming image with the  
determined print quality; and  
means for generating the pre-warming signal for the printing portions; and  
means for omitting generation of the pre-warming signal for the non-printing portions.

26. (Canceled)

27. (Previously presented) A printing system, comprising:  
means for ejecting ink from plural portions of an inkjet printhead;  
means for heating each of said plural portions in response to a pre-warming signal;  
means for generating the pre-warming signal for one of said plural portions;  
means for omitting generation of the pre-warming signal for another of said plural  
portions;  
means for determining when said one of said plural portions is required to print during an  
initial segment of a print swath and is not required to print during a final segment of the print  
swath; and  
means for ceasing generation of the pre-warming signal after printing said initial segment.

28-30. (Canceled)

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31. (Previously presented) The printing system of claim 1, wherein the selection criteria is derived at least in part from a parameter specified by a user of the printing system, the parameter different from the print data.

32. (Previously presented) The printing system of claim 1, wherein the selection criteria comprises at least two selection criteria.

33. (Currently amended) A printing system, comprising:  
an inkjet printhead having plural portions each having an ink-ejecting nozzle;  
plural heater elements each associated with one of said plural portions to pre-warm ink  
dispensed by the nozzle of said associated portion in response to a pre-warming signal; and  
a controller configured to  
analyze an upcoming print swath to determine which of said plural portions are  
required to eject ink in order to print the swath in accordance with a predefined selection criteria,  
and  
supply the pre-warming signal to one or more heater elements of only the portions  
required to eject ink to print the swath in accordance with the predefined selection criteria  
~~The printing system of claim 1,~~ wherein particular ones of the plural portions are configured to eject a particular color ink, and wherein the selection criteria specifies a subset of the particular plural portions to be used to print the swath.

34. (Currently amended) A printing system, comprising:  
an inkjet printhead having plural portions each having an ink-ejecting nozzle;  
plural heater elements each associated with one of said plural portions to pre-warm ink  
dispensed by the nozzle of said associated portion in response to a pre-warming signal; and  
a controller configured to



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analyze an upcoming print swath to determine which of said plural portions are required to eject ink in order to print the swath in accordance with a predefined selection criteria, and

supply the pre-warming signal to one or more heater elements of only the portions required to eject ink to print the swath in accordance with the predefined selection criteriaThe printing system of claim 1, wherein the selection criteria specifies an event after which the controller stops supplying the pre-warming signal to the heater elements of the portions required to eject the ink to print the swath.

35. (Previously presented) The printing system of claim 1, wherein each plural portion has a plurality of ink-ejecting nozzles.

36. (Previously presented) The printing system of claim 35, wherein each plural portion defines a linear array of ink-ejecting nozzles.

37. (New) The method of claim 14, further comprising:  
beginning printing of a print swath having a plurality of segments; and  
ceasing generation of the pre-warming signal for a particular dispensing portion during printing of a final segment of the print swath.

38. (New) The method of claim 14, further comprising:  
beginning printing of a print swath; and  
ceasing generation of the pre-warming signal for a particular dispensing portion after ink dispensing from the particular dispensing portion is concluded for the print swath.

39. (New) The method of claim 14, wherein the pre-warming signal is generated before beginning printing of the print swath.